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Open Oregon Resources: From Google Form to Interactive Web Apps

Amy R. Hofer

Linn-Benton Community College, hofer@linnbenton.edu

Tamara Marnell

Central Oregon Community College, tmarnell@cocc.edu

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Online Northwest
March 31, 2017

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Starting goal: OER LibGuide



Revised goal: What is being used at OR community colleges



[HOME](#)[CALENDAR](#)[CONTACT](#)[RESOURCES](#)[Z-DEGREE](#)

Resources

Browse or search the table below to find out what other Oregon community college instructors are using to reduce textbook costs in their courses. If you see a name and email address, feel free to contact that person about their class.

[Use this short form to submit your own course materials!](#)

INSTITUTION	COURSE	COURSE MATERIALS	LINKS	NAME
Linn-Benton Community College	AA 224	Strizver, I. (2014). Type rules! : The designer's guide to professional typography (Fourth ed.).	Available in the library via EBSCO con-current use ebook purchase	

Klamath Community College	ATH 101	Biological Anthropology	http://wikieducator.org/Biological_Anthropology	Kaitlin Hakanson
Lane Community College	AUD 120	Title: Audio Production 1 Author: Melissa Stark All references used are footnoted in the course packet. You can download my course packet and feel free to use what ever portion you think will be useful to your class.	https://drive.google.com/open?id=0B_Prt7_zdg0ic1FxZUJcGxBNDg	Melissa Stark
Tillamook Bay Community College	BA 101	Exploring Business (Saylor)	https://saylordotorg.github.io/text_exploring-business-v2.0/	Tom Atchison
Portland Community College	BA 101 Introduction to Business	Exploring Business and Human Resource Management	http://open.lib.umn.edu/exploringbusiness/ and http://open.lib.umn.edu/humanresourcemanagement/	Kim Bishop
Tillamook Bay Community College	BA 131	Information Systems for Business and Beyond (Saylor)	http://www.saylor.org/site/textbooks/Information%20Systems%20for%20Business%20and%20Beyond/Textbook.html	Tom Atchison
Tillamook Bay Community College	BA 205	Business Communication for Success (Saylor)	https://saylordotorg.github.io/text_business-communication-for-success/	Tom Atchison
Tillamook Bay Community College	BA 206	Principles of Management (Saylor)	https://saylordotorg.github.io/text_principles-of-management-v1.1/	Tom Atchison
Umpqua Community College	BA 206	Principles of Management (Saylor)	https://saylordotorg.github.io/text_principles-of-management-v1.1/	Martha Joyce
Linn-Benton Community College	BA 218	Warner, R., & Stim, R. (2008). Retire happy. Berkeley CA: Nolo Press. Leonard, R., & Loftsgordon, A. (2015). Credit repair. Berkeley CA: Nolo Press. Stim, R., & Guerin, L. (2008). Wow! I'm in business.	Available in the library via EBSCO Legal Information Reference Center (access provided to all Oregonians by Oregon State Library).	Steve Anderson

OREGON AAOT Z-DEGREE

Which courses are students most likely to take to meet AAOT degree requirements?
Click on the dots to find out!

FOUNDATIONAL
COURSES

ARTS &
LETTERS

SCIENCE

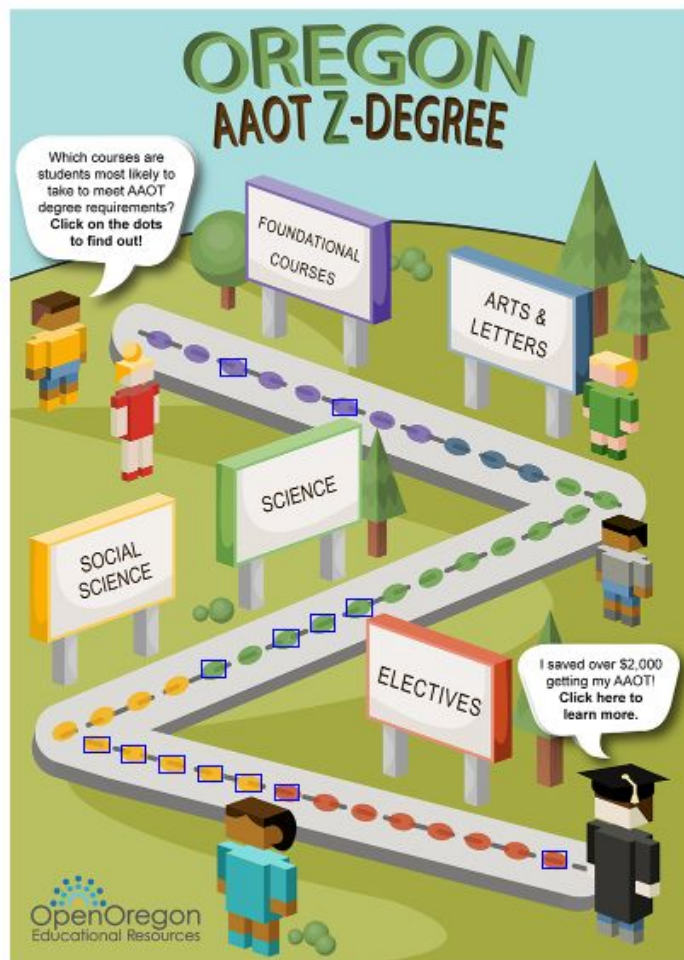
SOCIAL
SCIENCE

ELECTIVES

I saved over \$2,000
getting my AAOT!
Click here to
learn more.

Faculty at Tillamook Bay Community College have submitted resources for 13 high-enrollment courses.

See them outlined in [blue](#) below.



Open Oregon Resource Tracker

The purpose of this form is to identify free and low-cost materials that are in use at Oregon's community colleges so that instructors can see what their colleagues are using. Your responses will be published on openoregon.org - either anonymously, or along with your name and email, depending on your preference.

If you teach more than one low- or no-cost course, please submit one form per course. Low-cost is generally defined as materials under \$30, though this number is flexible. You might use one or a combination of the following strategies:

- Create my own open or copyrighted materials
- Adopt or adapt existing open educational resources
- Use open or copyrighted materials available through the library
- Use copyrighted content that costs under \$30

If so, we want to hear from you! Thank you for filling in the Open Oregon Resource Tracker.

Questions? Contact Open Oregon: <http://openoregon.org/contact/>

* Required

Institution *

- ☐ Blue Mountain Community College
- ☐ Central Oregon Community College
- ☐ Chemeketa Community College
- ☐ Clackamas Community College
- ☐ Clatsop Community College
- ☐ Columbia Gorge Community College
- ☐ Klamath Community College
- ☐ Lane Community College
- ☐ Linn-Benton Community College
- ☐ Mt. Hood Community College
- ☐ Oregon Coast Community College
- ☐ Portland Community College
- ☐ Rogue Community College

Workflow

1. User submits entry via [Google Form](#)
2. WordPress plugin uses [Google Sheets API \(version 3\)](#) to fetch the data, format it in a table, and display it on webpage

Google Forms and Sheets: The Data

- Form responses stored in a spreadsheet
- Spreadsheet must be published to the web to be accessible via API
 - Alternatively, use [authorized requests](#)

Open Oregon Resource Tracker (Responses) ☆ ↻

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fx Timestamp

	A	B	C	D	E	F	G	
1	Timestamp	Institution	Course prefix and number	Please share the title, au	Please paste links to cou	Name	Email	
2	9/30/2015 13:43:04	Linn-Benton Community	MTH 251, MTH 252	Contemporary Calculus b	http://scidiv.bellevuecollege.edu/dh/Calculus_all/Calculus_all.html			
3	9/30/2015 13:44:21	Linn-Benton Community	MTH 256	Notes on Diffy Qs: Differe	http://www.jirka.org/diffyqs/htmlver/diffyqs.html			
4	9/30/2015 13:46:01	Linn-Benton Community	WR 122	Writing Spaces: Readings	http://writingspaces.org/	Robert Rodger	rogerr@linnbenton.edu	
5	9/30/2015 13:47:28	Linn-Benton Community	CMA 110	Business Communication	https://saylordotorg.github	Rick Durling	durlinr@linnbenton.edu	
6	9/30/2015 13:49:55	Linn-Benton Community	CS 140U	Linux Guidebook 2, CC-B	http://linuxguide.josephco	Joseph Jess	jessj@linnbenton.edu	
7	9/30/2015 13:51:22	Linn-Benton Community	WW 6-191	AWWA Staff, Pizzi, & An	Available in the library via Ebrary Academic Complete			
8	9/30/2015 13:52:44	Linn-Benton Community	MT 3-836	Parr, E. (1998). Hydraulic	Available in the library via EBSCO concurrent use ebook purchase			
9	9/30/2015 13:53:49	Linn-Benton Community	AA 224	Strizver, I. (2014). Type ru	Available in the library via EBSCO concurrent use ebook purchase			
10	9/30/2015 13:54:35	Linn-Benton Community	HST 159	Mason, C. (2005). A shor	Available in the library via EBSCO concurrent use ebook purchase			
11	9/30/2015 13:55:49	Linn-Benton Community	CR 102	Peters, F. (1994). Reader	Available in the library via Ebrary Academic Complete			
12	9/30/2015 13:58:25	Linn-Benton Community	NUR 101	Schuster, P. M., & Nykoly Sommers, M. S. (2011). I				
13	9/30/2015 13:59:14	Linn-Benton Community	AA 226	Vallerand, A. H., Sanoski	"Communication" and "Di	Shari Spencer	spencers@linnbenton.edu	
14	10/2/2015 4:23:50	Linn-Benton Community	CMA 130, CMA 230	Lupton, E. (2010). Thinkin	Available in the library via Ebrary Academic Complete			
15	10/7/2015 10:50:34	Linn-Benton Community	MTH 111	Stuhan, M., & American S	Available in the library via	Rick Durling	durlinr@linnbenton.edu	
16	10/14/2015 13:17:04	Columbia Gorge Commur	EET 111	Precalculus: An Investiga	http://www.opentextbooks	Mary Campbell	campbem@linnbenton.edu	
17	10/14/2015 13:18:42	Columbia Gorge Commur	EET 141 Motor Controls	Title: Basic Electronics 1: Author: Jim Pytel, NSF A	https://www.youtube.com	Jim Pytel	jpytel@cgcc.edu	
18	10/21/2015 10:15:50	Klamath Community Colle	WR 121, WR 095, WR 12	Title: Electrically Control	https://www.youtube.com	Jim Pytel	jpytel@cgcc.edu	
19	10/21/2015 12:27:55	Lane Community College	CIS 140U	Author: Jim Pytel, NSF A	http://openoregon.pressb	Robin Jeffrey	jeffrey@klamathcc.edu	
20	10/21/2015 14:31:59	Lane Community College	ED 200, ED 201	Linux Guide 2, Joseph Co	http://linuxguide.josephco	Joseph Colton	coltonj@lanecc.edu	
				Watrous, M.K., Anstine, :	http://writingincolor.wikisp	Merrill Watrous	watrousm@lanecc.edu	

Google Forms and Sheets: The API

- Returns XML “feed” of responses
 - Uses Atom standard, similar to RSS
 - Every cell is one “entry”
 - https://spreadsheets.google.com/feeds/cells/1d3W61fy4hX4UhiZjN0FL1V_uMZ9FPa-3E-EyDdDPbHQ/default/public/values
- WordPress plugin calls server-side with PHP
 - Can't use JavaScript client-side in API version 3, but can in version 4 according to documentation

WordPress: The Plugin

- Basic idea: Loops through XML entries, puts contents in table
- Can apply minimal display logic

Approach Pros

- Google Form easy to build
- Spreadsheet easy to edit
- No other plugins or local storage necessary

Approach Cons

- API is less efficient than local storage
- Plugin is already outdated
- Developer must build and maintain application
 - Difficult to share on request
 - Time-consuming to make changes

Approach Alternatives

- Use Google Forms, but embed or link to the spreadsheet
 - Easy to implement, harder for users to read
- Use a WordPress form plugin (or Drupal module, etc.)
 - Haven't yet found one with great reports
 - Might need to use plugin API anyway
- Build from scratch

Resources

- Google Sheets API v. 3 (Legacy):
<https://developers.google.com/sheets/api/v3/>
- Google Sheets API v. 4:
<https://developers.google.com/sheets/api/>
- WordPress Developer documentation:
https://codex.wordpress.org/Developer_Documentation

Website: openoregon.org

Twitter: [@open_oregon](https://twitter.com/open_oregon)

hofer@linnbenton.edu

tmarnell@cocc.edu